Best® Theratronics

April 6, 2011

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James P. Dwyer, Chief
Commercial and R&D Branch
Division of Nuclear Materials Safety
United States Nuclear Regulatory Commission
Region I,
475 Allendale Rd
King of Prussia, PA 19406-1415

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REGION 1
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Subject: Best Theratronics, Ltd. Transition To New RSO

Dear Mr. Dwyer,

This letter is to advise you that Abe Ghosh, RSO will be reducing his hours/duties at Best Theratronics, Ltd. and as part of this reduction in hours/duties we would like to transition to a new RSO.

We are pleased to announce that Dr. Richard Wassenaar, will be joining Best Theratronics, Ltd., with the intent he will take over the duties and role of RSO upon approval of the NRC. Enclosed for your review is Dr. Wassenaar's resume. In addition, he will be attending a one-week RSO Course early next month which should complete his requisite training as required by the NRC.

Please do not hesitate to contact me or Mr. Ghosh should you have any questions or concerns. I can be reached by phone at (703) 451-2378, ext. 128, or by email at rbergin@teambest.com. Mr. Ghosh can be reached by phone at (613) 591-2100, ext. 2766, or by email at abe.ghosh@theratronics.ca.

Very Truly Yours,

Ruth Bergin

Cc: Abe Ghosh

574885
NMSS/RGN1 MATERIALS-002

413 March Road, Ottawa, ON K2K 0E4 Canada
phone 613 591 2100 fax 613 591 6627

Richard Wassenaar, Ph.D.

[redacted]

DEGREES

June 2005	Ph.D.(physics), Carleton University specialization in Medical Physics
Sept 2000	fast-tracked from M.Sc. (physics) to PhD program
June 1999	H.B.Sc. (physics), Lakehead University. Graduated with Honours

SUMMARY OF QUALIFICATIONS

- 10 years practical experience in clinical nuclear medicine
- Developed numerous research collaborations with numerous groups, both private and academic
- Acquired a reputation for team leadership, administrative, and organizational skills
- Demonstrated effective oral and written communication skills with multiple internal reports, published manuscripts, course lectures and oral presentations at both local and international levels

PROFESSIONAL EXPERIENCE

Corporate Nuclear Medicine Physicist 2005 - 2010
Division of Nuclear Medicine, The Ottawa Hospital, Ottawa, ON

As the sole nuclear medicine imaging physicist for a large Nuclear Medicine department (14 cameras and 25+ employees), undertook a leadership role in many aspects of the program.

- Responsible for overseeing the department's clinical patient database and computer network
    - Worked closely with the vendor in managing the site that was the vendor's largest installation in Canada (25+ computer terminals) and one of the largest internationally
    - Recognized the need for and developed novel computer applications, using C++/QT, for data analysis to meet changes in imaging standards. These applications are still in use and have been migrated to other sites.
- Headed the department's quality control (QC) program
    - Selected to assess and redevelop the Nuclear Medicine QC program to improve clinical care and successfully obtain ICANL accreditation. Protocols are still in use.

- Oversaw the relocation and acceptance testing of 7 gamma cameras
- Performed and documented the acceptance testing of 2 SPECT and 3 SPECT/CT hybrid camera installations, including RED/HARP act compliance of the CT components of the hybrid cameras

- Initiated the development of new imaging protocols that leveraged novel technologies to improve patient care, including:
  - Oversaw the introduction of whole-body bone SPECT imaging, which is now fast becoming a standard of care. One of the first sites world-wide to report on this.
  - Developed imaging procedures that reduced the injected activity during the isotope shortage
  - Implemented the use of 3D iterative reconstruction algorithms that reduced imaging time by ~50%
- Liaised with the hospital's Radiation Safety Office in amending an internal licence for a research lab to include Tc-99m and liquid I-123
- Selected to develop a departmental research program in Nuclear Medicine at The Ottawa Hospital, including
  - Chaired monthly research meetings with the physicians to assess research progress and develop research goals
  - Initiated collaborative research projects with researchers at the Ottawa Cancer Centre, the National Research Council, and Carleton University
  - Selected to oversee the data analysis and data quality control for a large, multi-centre project that included 7 sites with a patient enrolment of ~600, including development of custom Excel macros using VBA
  - Supervised numerous students at all levels (graduate, undergraduate, technologist medical, and co-op)

Research Assistant 1999 – 2005
PET Imaging Centre, The University of Ottawa Heart Institute, Ottawa, ON

- Initiated the development of a method for improving 18-FDG cardiac PET quantitation as part of PhD research
- Assisted in developing province-wide PET QC protocols for the the Ontario Clinical Oncology Group PET pre-clinical trials
- Led the development and validation of 11C-carbon monoxide production and imaging procedures in a canine model
- Played a key role on a team that studied the effect of CT attenuation correction in cardiac PET and was one of the first centres to report on the magnitude of this effect

Research Assistant Summer 1999
Lakehead University, Thunder Bay, ON

- Developed an application, using MS Visual Studio and FORTRAN, to model electron-hole transport in a semi-conductor under the influence of perpendicular electric and magnetic fields

Research Assistant Summer 1998
The Northwestern Ontario Cancer Centre, Thunder Bay, ON

- Awarded a H.E. Johns studentship for a summer placement at the cancer centre in Thunder Bay
- Assisted the senior physicist in performing routine dose measurements using ion chambers as part of the quality control of the radiotherapy machines
- Collected baseline data for an in-house developed, diode-based radiotherapy machine QC system that reduced QC time
- Investigated the effect of dental implants on radiotherapy treatment in head and neck cancers at the Northwestern Ontario Cancer Centre

ACADEMIC APPOINTMENTS

2007 – present	Adjunct professor, Department of Physics, Carleton University
2007 – present	Assistant Professor (Cross-appointment), Cardiology, Faculty of Medicine, Ottawa University
2005 – present	Assistant Professor, Department of Medicine, Faculty of Medicine, Ottawa University
2005 – 2010	Scientist, Division of Nuclear Medicine, The Ottawa Hospital Research Institute

COMMITTEES

2008 – 2010	Chaired monthly departmental research meetings, The Ottawa Hospital.
2006 – date	Ottawa Medical Physics Institute (OMPI) executive board, elected as secretary from 2007 to present
2005 – 2010	Quality Assurance sub-committee, Ontario Clinical Oncology Group (OCOG) PET imaging pre-clinical trials
2005 – 2006	Nuclear Medicine imaging protocol standardization committee, Division of Nuclear Medicine, The Ottawa Hospital.
2006 – 2010	SPECT and SPECT/CT scanner technical evaluation and selection. Division of Nuclear Medicine, The Ottawa Hospital

MEMBERSHIPS

Member, Canadian Association of Physicists (CAP)
Member, Canadian Organization of Medical Physicists (COMP)
Member, IEEE
Member, Ottawa Medical Physics Institute (OMPI)

SUPERVISORY EXPERIENCE

	Supervised	Co-supervised
Ph.D. students	1	1
M.Sc. Students		1
Medical summer students		2
Undergraduate students	3	2
other	1	1

PUBLICATIONS AND PRESENTATIONS

Book Chapters	1
Peer-reviewed Journal Articles	10
Conference Proceedings	9
Abstracts	15
Invited Talks.	6

Invited Presentations

- Wassenaar R, CT in Nuclear Medicine, Canadian Association of Nuclear Medicine 2010 Annual Meeting, May 6-7, Montreal
- Wassenaar R, Schaffer P, The Global Isotope Crisis: How Does it Affect My Healthcare?, 2010 Department of Physics Public lecture, Carleton University

This is to acknowledge the receipt of your letter/application dated

4/6/2011, and to inform you that the initial processing which includes an administrative review has been performed.

☑ ADAMS: 45-3129-01
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

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A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 574825.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (RI)
(6-96)

Sincerely,
Licensing Assistance Team Leader